# PATENT COOPERATION TREATY

REC'D 23 MAR 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTAGERY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file referen	nce				
P2077PC00	FOR FURTHER A	ACTION See Form	PCT/IPEA/416		
International application No.	International filing d	ate (day/month/year)	Priority date (day/month/year)		
PCT/NO 2003/00043	37 22-12-2003	•	30-12-2002		
International Patent Classification	(IPC) or national classification	n and IPC	30 12-2002		
G02B26/12, G02B27	7/44, G02B5/18		•		
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Applicant					
SINVENT AS ET AL					
1. This report is the internati			. N. Problems		
Authority under Article 3	onal preliminary examination r 5 and transmitted to the applica	eport, established by thi	is International Preliminary Examining		
2. This REPORT consists of	and applied	are according to Afficie	30.		
		ets, including this cover	r sheet.		
- 1ms report is also accomp	anied by ANNEXES, comprisi	ng:			
a. (sent to the a	pplicant and to the Internationa	I Rurami) a total as			
sheets	of the description, claims and	bureau) a total of	sheets, as follows:		
and/o	sheets containing rectification	or crawings which have s authorized by this Aut	been amended and are the basis of this report thority (see Rule 70.16 and Section 607 of the		
sheets	which supersede earlier sheets	, but which this Authori	ty considers contain an amendment that goes		
Suppl	emental Box.	onal application as filed	ity considers contain an amendment that goes I, as indicated in item 4 of Box No. I and the		
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b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
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Administrative	Instructions).	mental Box Relating to	and/or tables related thereto, in computer sequence Listing (see Section 802 of the		
4. This report contains indica	tions relating to the following i	teme			
Box No. I	Basis of the report	chis.			
<b>=</b>	Priority				
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	von-establishment of opinion w	rith regard to novelty, in	ventive step and industrial applicability		
DOX 140. 14	ack of unity of invention				
Box No. V	leasoned statement under Artic	le 35(2) with regard to r	novelty inventive step on in 1		
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	countries cited				
	Certain defects in the international application				
Box No. VIII Certain observations on the international application					
ate of submission of the demand		Date of completion of	f this report		
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9-06-2004		10-03-2005			
ame and mailing address of the IP	EA/SE	Authorized officer			
Authorized officer Ox 5055					
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acsimile No. +46 8 667 72	88	Anna Lundqv	ist /LR		
orm PCT/IPEA/409 (cover sheet) (	January 2004)	Telephone No. +46	8 782 25 00		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000437

Bo	x No. 1	I B	Basis of the report	
1.	With	regard wise ind	to the language, this report is based on the international application in the language	ge in which it was filed, unles
	Ш	This rewhich	eport is based on a translation from the original language into the following language is the language of a translation furnished for the purposes of:	
			international search (under Rules 12.3 and 23.1(b))	
			publication of the international application (under Rule 12.4)	
			international preliminary examination (under Rules 55.2 and/or 55.3)	•
2.	With furnis and a	regard shed to t re not a	to the elements of the international application, this report is based on (replace the receiving Office in response to an invitation under Article 14 are referred to in the innexed to this report):	ment sheets which have beer his report as "originally filed"
	$\boxtimes$	the in	ternational application as originally filed/furnished	
			scription:	
		pages		
		pages*	received by this Authority on	as originally filed/furnished
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	Ш	a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence I	isting.
3.			nendments have resulted in the cancellation of:	
			the description, pages	
		님	the claims, Nos.	
			the drawings, sheets/figs	
		$\sqcup$	the sequence listing (specify):	<del></del>
			any table(s) related to the sequence listing (specify):	
4.		This representation of the second representat	port has been established as if (some of) the amendments annexed to this report are ince they have been considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond the disclosure as filed, as indicated in the considered to go beyond th	nd listed below had not been the Supplemental Box (Rule
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		$\Box$	the drawings, sheets/figs	
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			any table(s) related to the sequence listing (specify):	·
· I	fitem 4	applies	s, some or all of those sheets may be marked "superseded."	
orm I	CT/IP	EA/409	(Box No. I) (January 2004)	

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000437

Box No. V F	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			·	
Novelty (	N)	Claims Claims	1-7	.YE:
Inventive	step (IS)	Claims Claims	1-7	YES NO
Industrial	applicability (IA)	Claims Claims	1-7	YES NO

#### 2. Citations and explanations (Rule 70.7)

This application relates to a configurable diffractive optical element comprising an array of diffractive sub-elements having a reflective surface, wherein each sub-element has a controllable position with a chosen range, and in which a number of sub-elements are provided with a reflective grating with a number of chosen spectral characteristics.

Documents cited in the International Search Report:

D1: US 20030174958 A D2: EP 0750207 A2

The cited documents represent the general state of the art.

The invention defined in claims 1-7 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed optical element. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-7 is novel and is considered to involve an inventive step. The invention is industrially applicable.

## INTERNATIONAL SEARCH REPORT

International application No. PCT/NO 2003/000437

			PC1/NU 200	3/00043/	
A. CLASSI	FICATION OF SUBJECT MATTER				
IPC7: GO	2B 26/12, G02B 27/44, G02B 5/1	8			
B. FIELDS	2B 26/12, G02B 27/44, G02B 5/16 International Patent Classification (IPC) or to both SEARCHED	national classification and	i IPC		
	umentation searched (classification system followed	by classification marks by			
		oy classification symbols	)		
IPC7: GO			<del></del>		
CC DV CT	n searched other than minimum documentation to t	he extent that such docu	nents are included i	n the fields searched	
	,NO classes as above		·		
Electronic data	base consulted during the international search (nar	ne of data base and, when	e practicable, searc	h terms used)	
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_	RNAL, WPI DATA				
	ENTS CONSIDERED TO BE RELEVANT		**************************************	:	
	Itation of document, with indication, where a		ant passages	Relevant to claim No.	
A	US 20030174958 A (CIZEK ET AL), (18.09.2003), page 1 [0007] [0042]-page 5[0046]; fig 5-	18 Sept 2003  -page 2 [0011] -9, claims 1-20	page 4	1-3,6,7	
A 1	EP 0750207 A2 (EASTMAN KODAK COMPANY), 27 December 1996 (27.12.1996), page 1,				
	line 56 - page 2, line 14,	figures 1,2, cl	aims 1-7		
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O" document re	special reason (as specified)  "Y"  document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is				
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### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/NO 2003/000437

US	20030174958	Α	18/09/2003	NONE		
EP	0750207	A2	27/12/1996	JP US	9015411 A 5701005 A	17/01/1997 23/12/1997

Form PCT/ISA/210 (patent family annex) (January 2004)